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OS 26 CIPR

**CRF Errors Corrected by the STIC Systems Branch**

**Serial Number:** 10/CCS,524H

CRF Processing Date: 8/27/01  
Edited by: JK  
Verified by: \_\_\_\_\_ (STIC staff)

Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was "wrapped" down to the next line. 1111

Edited a format error in the Current Application Data section, specifically:  
\_\_\_\_\_

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other \_\_\_\_\_.

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:  
\_\_\_\_\_

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:  
\_\_\_\_\_

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:  
\_\_\_\_\_

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included:  
\_\_\_\_\_

Deleted extra, invalid, headings used by an applicant, specifically:  
\_\_\_\_\_

Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/filename at end of file;  
 page numbers throughout text;  other invalid text, such as \_\_\_\_\_.

Inserted mandatory headings, specifically: \_\_\_\_\_

Corrected an obvious error in the response, specifically:  
\_\_\_\_\_

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:  
\_\_\_\_\_

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_

Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



OIPE

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/008,524A**

DATE: 08/27/2002 8:16  
 TIME: 11:28:50

Input Set : A:\PTO.DC.TXT  
 Output Set: N:\CRF3\08272002\J008524A.raw

3 <110> APPLICANT: Doorbar, John  
 5 <120> TITLE OF INVENTION: IMPROVEMENTS IN OR RELATING TO SCREENING FOR PAPILLOMA  
 6 VIRUSES  
 8 <130> FILE REFERENCE: 18396/1074  
 10 <140> CURRENT APPLICATION NUMBER: 10/008,524A  
**C--> 11 <141> CURRENT FILING DATE: 2002-08-13**  
 13 <150> PRIOR APPLICATION NUMBER: 09/314,268  
 14 <151> PRIOR FILING DATE: 1999-05-18  
 16 <160> NUMBER OF SEQ ID NOS: 179  
 18 <170> SOFTWARE: PatentIn Ver. 2.1  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 375  
 22 <212> TYPE: DNA  
 23 <213> ORGANISM: Human papillomavirus type 16  
 25 <400> SEQUENCE: 1  
 26 qgqgtgccac ttcagaatg tattgtcaaa aacttgcac ttgtttggc aaatacgctc 60  
 27 cqaatgtcg tegettttc tgccagccct caactgaaag aggcccagtc agagaaggaa 120  
 28 qaaqcuccaa agccacttca caaagtatgtg gtatgttta gtaaaaaact cagtaagaag 180  
 29 cagagtgaac taaatqqat cgcgcctct ctaggacgag attacaggtq gagtttgat 240  
 30 qaaatgtga ctcatttcat ctatcaaggc cgcccaaattg acactaatcg qgagtataaa 300  
 31 tctgtaaaag aaagaggagt acacattgtt tccgagcact ggcttttaga ttgtgcccaa 360  
 32 qagtgtaaac atttt 375  
 35 <210> SEQ ID NO: 2  
 36 <211> LENGTH: 125  
 37 <212> TYPE: PRT  
 38 <213> ORGANISM: Homo sapiens  
 40 <400> SEQUENCE: 2  
 41 Ala Leu Pro Leu Ser Glu Val Ile Val Lys Asn Leu Gln Leu Ala Leu  
 42 1 5 10 15  
 44 Ala Asn Ser Ser Arg Asn Ala Val Ala Leu Ser Ala Ser Pro Gln Leu  
 45 20 25 30  
 47 Lys Glu Ala Gln Ser Glu Lys Glu Glu Ala Pro Lys Pro Leu His Lys  
 48 35 40 45  
 50 Val Val Val Cys Val Ser Lys Lys Leu Ser Lys Lys Gln Ser Glu Leu  
 51 50 55 60  
 53 Asn Gly Ile Ala Ala Ser Ile Gly Ala Asp Tyr Arg Ile Ser Phe Asp  
 54 65 70 75 80

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/008,524A**

**DATE: 08/27/2002**  
**TIME: 11:28:50**

**Input Set : A:\PTO.DC.TXT**  
**Output Set: N:\CRF3\08272002\J008524A.raw**

66 <210> SEQ ID NO: 3  
 67 <211> LENGTH: 491  
 68 <212> TYPE: PRT  
 69 <213> ORGANISM: Homo sapiens  
 71 <400> SEQUENCE: 3  
 72 Ala Pro Glu Glu His Asp Ser Pro Thr Glu Ala Ser Gln Pro Ile Val  
 73       1                   5                   10                   15  
 75 Glu Glu Glu Glu Thr Lys Thr Phe Lys Asp Leu Gly Val Thr Asp Val  
 76       20                   25                   30  
 78 Leu Cys Glu Ala Cys Asp Gln Leu Gly Trp Thr Lys Pro Thr Lys Ile  
 79       35                   40                   45  
 81 Gln Ile Glu Ala Tyr Ser Leu Ala Leu Gln Gly Arg Asp Ile Ile Gly  
 82       50                   55                   60  
 84 Leu Ala Glu Thr Gly Ser Gly Lys Thr Gly Ala Phe Ala Leu Pro Ile  
 85       65                   70                   75                   80  
 87 Leu Asn Ala Leu Leu Glu Thr Pro Gln Arg Leu Phe Ala Leu Val Leu  
 88       85                   90                   95  
 90 Thr Pro Thr Arg Ser Trp Pro Phe Arg Ser Gln Ser Ser Leu Lys Pro  
 91       100                  105                  110  
 93 Trp Ser Ser Ile Gly Val Gln Ser Ala Val Ile Val Gly Gly Ile Asp  
 94       115                  120                  125  
 96 Ser Met Ser Gln Ser Leu Ala Leu Ala Lys Lys Pro His Ile Ile Ile  
 97       130                  135                  140  
 99 Ala Thr Pro Gly Arg Leu Ile Asp His Leu Glu Asn Thr Lys Gly Phe  
 100 145                   150                   155                   160  
 102 Asn Leu Arg Ala Leu Lys Tyr Leu Val Met Asp Glu Ala Asp Arg Ile  
 103       165                  170                  175  
 105 Leu Asn Met Asp Phe Glu Thr Glu Val Asp Lys Ile Leu Lys Val Ile  
 106       180                  185                  190  
 108 Pro Arg Asp Arg Lys Thr Phe Leu Phe Ser Ala Thr Met Thr Lys Lys  
 109       195                  200                  205  
 111 Val Gln Lys Leu Gln Arg Ala Ala Leu Lys Asn Pro Val Lys Cys Ala  
 112       210                  215                  220  
 114 Val Ser Ser Lys Tyr Gln Thr Val Glu Lys Leu Gln Gln Tyr Tyr Ile  
 115 225                   230                   235                  240  
 117 Phe Ile Pro Ser Lys Phe Lys Asp Thr Tyr Leu Val Tyr Ile Leu Asn  
 118       245                  250                  255  
 120 Glu Leu Ala Gly Asn Ser Phe Met Ile Phe Cys Ser Thr Cys Asn Asn  
 121       260                  265                  270  
 123 Thr Gln Arg Thr Ala Leu Leu Leu Arg Asn Leu Gly Phe Thr Ala Ile  
 124       275                  280                  285  
 126 Pro Leu His Gly Gln Met Ser Lys Arg Leu Gly Ser Leu Asn Lys Phe  
 127       290                  295                  300  
 129 Lys Ala Lys Ala Arg Ser Ile Leu Leu Ala Thr Asp Val Ala Ser Arg  
 130 305                   310                   315                  320  
 132 Gly Leu Asp Ile Pro His Val Asp Val Val Asn Phe Asp Ile Pro  
 333       335

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/008,524A

DATE: 08/27/2002

TIME: 11:28:50

Input Set : A:\PTO.DC.TXT

Output Set: N:\CRF3\08272002\J008524A.raw

138 Gly Arg Ser Gly Lys Ala Ile Thr Phe Val Thr Gin Tyr Asp Val Glu  
139 355 360 365  
141 Leu Phe Gln Arg Ile Glu His Leu Ile Gly Lys Lys Leu Pro Gly Phe  
142 370 375 380  
144 Pro Thr Gln Asp Asp Glu Val Met Met Leu Thr Glu Arg Val Ala Glu  
145 385 390 395 400  
147 Ala Gln Arg Phe Ala Arg Met Glu Leu Arg Glu His Gly Glu Lys Lys  
148 405 410 415  
150 Lys Arg Ser Arg Glu Asp Ala Gly Asn Asp Asp Thr Arg Gly Cys  
151 420 425 430  
153 Tyr Val Cys Gln Glu Gln Gly Gly Trp Arg Lys Asn Glu Glu Ala Glu  
154 435 440 445  
156 Arg Pro Leu Ile Thr Phe Met Lys Ala Arg Val Leu Leu Phe Cys Lys  
157 450 455 460  
159 Arg Glu Leu Glu Asn Glu Thr Cys Ser Asn Arg Asp His Glu Thr Glu  
160 465 470 475 480  
162 Ile Gly Gln Asn Cys Val Gln Asn Val Leu Ser  
163 485 490  
166 <210> SEQ ID NO: 4  
167 <211> LENGTH: 25  
168 <212> TYPE: PRT  
169 <213> ORGANISM: Human papillomavirus type 16  
171 <400> SEQUENCE: 4  
172 Arg Pro Ile Pro Lys Pro Ser Pro Trp Ala Pro Lys Lys His Arg Arg  
173 1 5 10 15  
175 Leu Ser Asp Gln Asp Ser Gln Thr Pro  
176 20 25  
179 <210> SEQ ID NO: 5  
180 <211> LENGTH: 8  
181 <212> TYPE: PRT  
182 <213> ORGANISM: Artificial Sequence  
184 <220> FEATURE:  
185 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
186 octapeptide antigen  
188 <400> SEQUENCE: 5  
189 Met Ala Asp Pro Ala Ala Ala Thr  
190 . 5  
191 <210> SEQ ID NO: 6  
194 <211> LENGTH: 3  
195 <212> TYPE: PRT  
196 <213> ORGANISM Artificial Sequence  
198 <220> FEATURE:  
199 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
200 octapeptide antigen  
202 <400> SEQUENCE: 6  
203 Ala Asp Pro Ala Ala Ala Thr Lys

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/008,524A

DATE: 08/27/2002

TIME: 11:28:50

Input Set : A:\PTO.DC.TXT

Output Set: N:\CRF3\08272002\J008524A.raw

209 <212> TYPE: PRT  
210 <213> ORGANISM: Artificial Sequence  
212 <220> FEATURE:  
213 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
214 octapeptide antigen  
216 <400> SEQUENCE: 7  
217 Asp Pro Ala Ala Ala Thr Lys Tyr  
218 1 5  
221 <210> SEQ ID NO: 8  
222 <211> LENGTH: 8  
223 <212> TYPE: PRT  
224 <213> ORGANISM: Artificial Sequence  
226 <220> FEATURE:  
227 <223> OTHER INFORMATION: Description of Artiticial Sequence: synthetic  
228 octapeptide antigen  
230 <400> SEQUENCE: 8  
231 Pro Ala Ala Ala Thr Lys Tyr Pro  
232 1 5  
235 <210> SEQ ID NO: 9  
236 <211> LENGTH: 8  
237 <212> TYPE: PRT  
238 <213> ORGANISM: Artificial Sequence  
240 <220> FEATURE:  
241 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
242 octapeptide antigen  
244 <400> SEQUENCE: 9  
245 Ala Ala Ala Thr Lys Tyr Pro Leu  
246 1 5  
249 <210> SEQ ID NO: 10  
250 <211> LENGTH: 8  
251 <212> TYPE: PRT  
252 <213> ORGANISM: Artificial Sequence  
254 <220> FEATURE:  
255 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
256 octapeptide antigen  
258 <400> SEQUENCE: 10  
259 Ala Ala Thr Lys Tyr Pro Leu Leu  
260 1 5  
263 <210> SEQ ID NO: 11  
264 <211> LENGTH: 8  
265 <212> TYPE: PRT  
266 <213> ORGANISM: Artificial Sequence  
268 <220> FEATURE:  
269 <223> OTHER INFORMATION: Description of Artificial sequence: synthetic  
270 octapeptide antigen  
272 <400> SEQUENCE: 11

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/008,524A

DATE: 08/27/2002

TIME: 11:28:50

Input Set : A:\PTO.DC.TXT

Output Set: N:\CRF3\08272002\J008524A.raw

278 <211> LENGTH: 8  
279 <212> TYPE: PRT  
280 <213> ORGANISM: Artificial Sequence  
282 <220> FEATURE:  
283 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
284 octapeptide antigen  
286 <400> SEQUENCE: 12  
287 Thr Lys Tyr Pro Leu Leu Lys Leu  
288 1 5  
291 <210> SEQ ID NO: 13  
292 <211> LENGTH: 8  
293 <212> TYPE: PRT  
294 <213> ORGANISM: Artificial Sequence  
296 <220> FEATURE:  
297 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
298 octapeptide antigen  
300 <400> SEQUENCE: 13  
301 Lys Tyr Pro Leu Leu Lys Leu Leu  
302 1 5  
305 <210> SEQ ID NO: 14  
306 <211> LENGTH: 8  
307 <212> TYPE: PRT  
308 <213> ORGANISM: Artificial Sequence  
310 <220> FEATURE:  
311 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
312 octapeptide antigen  
314 <400> SEQUENCE: 14  
315 Tyr Pro Leu Leu Lys Leu Leu Gly  
316 1 5  
319 <210> SEQ ID NO: 15  
320 <211> LENGTH: 8  
321 <212> TYPE: PRT  
322 <213> ORGANISM: Artificial Sequence  
324 <220> FEATURE:  
325 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
326 octapeptide antigen  
328 <400> SEQUENCE: 15  
329 Pro Leu Leu Lys Leu Leu Gly Ser  
330 1 5  
333 <210> SEQ ID NO: 16  
334 <211> LENGTH: 8  
335 <212> TYPE: PRT  
336 <213> ORGANISM: Artificial Sequence  
338 <220> FEATURE:  
339 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
340 octapeptide antigen  
341 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/008,524A

DATE: 08/27/2002  
TIME: 11:28:51

Input Set : A:\PTO.DC.TXT  
Output Set: N:\CRF3\08272002\J008524A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:174; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42

Seq#:174; N Pos. 43,44,45,46,47,48,49

Seq#:177; N Pos. 41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59

Seq#:177; N Pos. 60,61,62,63,64,65,66

Seq#:178; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42

Seq#:178; N Pos. 43,44,45,46,47,48,49

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/008,524A

DATE: 08/27/2002

TIME: 11:28:51

Input Set : A:\PTO.DC.TXT

Output Set: N:\CRF3\08272002\J008524A.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L: 2905 M:341 W: (4b) "n" or "Xaa" used, for SEQ ID#:174 after pos.:0  
L: 2950 M:341 W: (4b) "n" or "Xaa" used, for SEQ ID#:177 after pos.:0  
L: 2951 M:341 W: (4b) "n" or "Xaa" used, for SEQ ID#:177 after pos. 60  
L: 2969 M:341 W: (4b) "n" or "Xaa" used, for SEQ ID#:178 after pos.:0



bjj  
NAPPA

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/008,524A

DATE: 08/20/2002  
TIME: 14:26:13

Input Set : A:\Cms0377.txt  
Output Set: N:\CRF4\08202002\J008524A.raw

3 <110> APPLICANT: Doorbar, John  
 5 <120> TITLE OF INVENTION: IMPROVEMENTS IN OR RELATING TO SCREENING FOR PAPILLOMA  
 6 VIRUSES  
 8 <130> FILE REFERENCE: 18396/1074  
 10 <140> CURRENT APPLICATION NUMBER: 10/008,524A  
 C--> 11 <141> CURRENT FILING DATE: 2002-08-13  
 13 <150> PRIOR APPLICATION NUMBER: 09/314,268  
 14 <151> PRIOR FILING DATE: 1999-05-18  
 16 <160> NUMBER OF SEQ ID NOS: 179  
 18 <170> SOFTWARE: PatentIn Ver. 2.1

#### ERRORED SEQUENCES

2973 <210> SEQ ID NO: 179  
 2974 <211> LENGTH: 4  
 2975 <212> TYPE: PRT  
 2976 <213> ORGANISM: Artificial Sequence  
 2978 <220> FEATURE:  
 2979 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
 2980 peptide  
 2982 <400> SEQUENCE: 179  
 2983 Asp Glu Ala Asp  
 2984 1  
 E--> 2985 (104) - . . . . .  
 E--> 2988 (104) - . . . . .

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/008,524A

DATE: 08/20/2002

TIME: 14:26:15

Input Set : A:\Cms0377.txt

Output Set: N:\CRF4\08202002\J008524A.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:2905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174 after pos.:0  
L:2950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:0  
L:2951 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:60  
L:2969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:178 after pos.:0  
L:2985 M:332 E: (32) Invalid/Missing Amino Acid Numbering. SEQ ID:179  
M:332 Repeated in SeqNo=179